

AMENDMENT TO THE CLAIMS

1. (canceled)
2. (currently amended) ~~The method of claim 1, further comprising: A~~
method for temporally filtering a video sequence, the method comprising:
using object motion estimation for arbitrarily shaped segments to align
corresponding pixels between at least two frames;
determining segments that are no longer adjacent to a segment boundary
based on said object motion estimation;
reducing impact of color blur from said segments that are no longer
adjacent by adjusting [[the]] weights assigned to one or more frames for pixels
that lie within a blur region near [[a]] said segment boundary; and to reduce the
impact of color blur from segments that are no longer adjacent.
computing a weighted average of color values of said corresponding
pixels.
3. (currently amended) ~~The method of claim 1~~ claim 2, further comprising:
setting the weight for one or more past frames to zero for pixels that
lie within a newly exposed area.
4. (currently amended) ~~The method of claim 1~~ claim 2, further comprising:
determining additional motion information across GOP boundaries
to allow filtering across these boundaries.
5. (currently amended) ~~The method of claim 1~~ claim 2, further comprising:
calculating a lighting offset, ~~expressing the~~ which expresses a
difference in lighting for a segment between two frames[[.]]; and using said
lighting offset to correct [[the]] lighting discrepancies caused by averaging
pixels from frames with different lighting.

6. (currently amended) An apparatus for temporally filtering a video sequence, wherein object motion estimation for arbitrarily shaped segments is used to align corresponding pixels between at least two frames and to determine segments that are no longer adjacent to a segment boundary, wherein weights assigned to one or more frames are adjusted for pixels that lie within a blur region near said segment boundary to reduce impact of color blur from said segments that are no longer adjacent to said segment boundary, and wherein said apparatus computes a weighted average of [[the]] color values of said corresponding pixels.

7. (canceled)

8. (currently amended) ~~The method of claim 7, further comprising:~~ A method for temporally filtering a video sequence using motion compensation, the method comprising:

estimating motion of objects between frames in the video sequence;

aligning pixels from a current frame with matching pixels from select neighboring frames according to the estimated motion of a surrounding object;

calculating a weighted average of the aligned pixels for each pixel in the current frame to produce a filtered version of the current frame; and

adjusting weights used to calculate the weighted average in order to compensate for blur transitions near object boundaries due to temporal changes in adjacent objects.

9. (original) The method of claim 8, wherein the adjustment of weights comprises a reduction of a weight multiplier in a blur region near an exposed area.

10. (original) The method of claim 8, wherein the adjustment of weights comprises a reduction of a weight multiplier in a blur region between converging objects.

11. (currently amended) The method of ~~claim 7~~ claim 8, wherein the estimation of motion is between frames that are across a group of pictures (GOP) type boundary which does not involve a scene change.
12. (currently amended) The method of ~~claim 7~~ claim 8, further comprising:
 - calculating a lighting offset; and
 - applying the lighting offset prior to calculating the weighted average in order to compensate for lighting shifts.

Conclusion

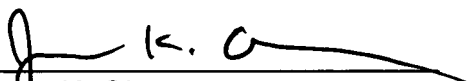
For the reasons discussed in the previously-filed Amendment and Response to Office Action, applicants respectfully submit that the pending claims, as hereby amended, are now patentably distinguished over the cited art.

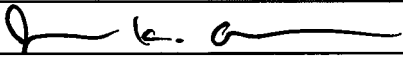
The Examiner is invited to call the undersigned for any questions.
Favorable action is respectfully solicited.

Respectfully submitted,

Dated: August 3, 2007

By:


James K. Okamoto
Attorney For Applicant(s)
Reg. No. 40,110
OKAMOTO & BENEDICTO LLP
P.O. Box 641330
San Jose, California 95164
(408) 436-2110
(408) 436-2114 (FAX)

CERTIFICATE OF MAILING			
I hereby certify that this correspondence, including the enclosures identified herein, is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. If the Express Mail Mailing Number is filled in below, then this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service pursuant to 37 CFR 1.10.			
Signature:			
Typed or Printed Name:	James K. Okamoto	Dated:	August 3, 2007
Express Mail Mailing Number (optional):			